

**MULTI-RESOLUTION INSPECTION SYSTEM
AND METHOD OF OPERATING SAME**

ABSTRACT

[0043] A multi-resolution inspection system and method of operation. The system may comprise a first scanning system having a first resolution, wherein the first scanning system is operable to perform a first resolution scan of a surface area of an object to identify a location of a surface abnormality in the object. The system may also comprise a second scanning system having a second resolution, the second resolution being smaller than the first resolution. The second scanning system is operable to receive the location of the surface abnormality from the first scanning system and to automatically perform a second resolution scan of a defined region of the object around the location of the surface abnormality.